

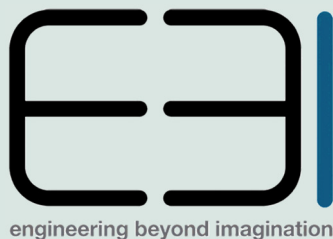
North American Hydraulics, (NAHI, LLC), partnering with EBI, world leaders in the production of hydraulic valves for mobile machinery.

Functions and Benefits:

- Parallel and tandem circuit available
- Compact directional valve with low pressure losses
- Interchangeable spools
- Wide range of auxiliary valves on the ports
- Availability of manual, pneumatic, hydraulic and electrohydraulic actuations

Proven Solutions for:

- Telehandlers
- Mini-excavators
- Medium and Large Sized Backhoe Loaders
- Forestry Cranes
- Truck Cranes
- Vast array of Earth-moving Machines



Please contact NAHI for additional information

The above information should be used as a guide and is subject to change without notice.

Please contact NAHI for proper selection.

Valves, Servo Controls, Diverters, Handles

Solution Providers



ECS08A



ECS10A



ECS12A



ECM08A



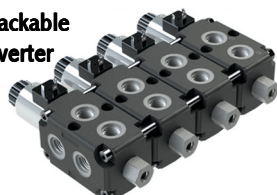
ECM08B



Monoblock Diverter



Stackable Diverter



EBI Sectional Valves

SPECIFICATIONS	ECS08A	ECS10A	ECS12A
Number of sections	1-12		
Parallel circuit	•	•	•
Tandem circuit	•	•	•
Parallel circuit stroke (mm) [in]	6 [0.24]	7 [0.28]	8 [0.32]
Float spool extra stroke (mm) [in]	5 [0.20]	4.5 [0.18]	6 [0.24]
Spool pitch (mm) [in]	36 [1.42]	41 [1.62]	48 [1.89]
Spool diameter (mm) [in]	14 [0.55]	16 [0.63]	19 [0.75]
Nominal flow (l/min) [GPM]	50 [12]	100 [25]	150 [40]
Operating pressure (bar) [psi]	350 [5000]		
OPTION CHART	ECS08A	ECS10A	ECS12A
Pilot operated pressure relief valve	•	•	•
Solenoid dump valve 12 VDC	•	•	•
solenoid dump valve 24 VDC	•	•	•
Main anticavitation check valve	•	•	•
SPOOL ACTUATION	ECS08A	ECS10A	ECS12A
Manual actuation	•	•	•
Hydraulic actuation	•	•	•
Electrohydraulic actuation	•	•	•
SPOOL RETURN ACTION	ECS08A	ECS10A	ECS12A
3 positions spring centered	•	•	•
Pneumatic control	•	•	•
Detent in position 1/2 - 1 - 2	•	•	•
Detent in 4th position	•	•	•
AUXILIARY VALVES	ECS08A	ECS10A	ECS12A
Fixed setting combined valve	•	•	•
Fixed setting anticavitation valve	•	•	•
Adjustable pilot combined valve	•	•	•

EBI Monoblock Valves

SPECIFICATIONS	ECM08A*	ECM08B
Number of sections	2-8	1-7
Stroke (mm) [in]	6 [0.24]	5.5 [0.22]
Extra stroke (mm) [in]	5 [.20]	4.5 [0.18]
Spool pitch (mm) [in]	36 [1.42]	
Nominal flow (l/min)	50 [12]	
Operating pressure (bar) [psi]	350 [5000]	
Port size (BSP) [SAE]	G 3/8 [08]	

* Can include optional port reliefs, anti-cavitation and/or load checks on each section.

EBI Monoblock and Stackable Diverters

TYPE	Monoblock		Stackable	
SPECIFICATIONS	EDM08A	EDM10A	EDS08A	EDS10A
Number of sections	1		2/3/4	
Nominal flow (l/min) [GPM]	50 [14]	100 [28]	50 [14]	100 [28]
Operating pressure (bar) [psi]	250 [3625]		250 [3625]	
Operating pressure by using external drain (bar) [psi]	310 [4500]		310 [4500]	
Max shifting pressure (bar) [psi]	130 [2000]		130 [2000]	
Diverter valve stroke (mm) [in]	3.2 [0.13]		3.2 [0.13]	
Port size (BSP) [SAE]	G3/8 [08]	G1/2 [10]	G3/8 [08]	G1/2 [10]

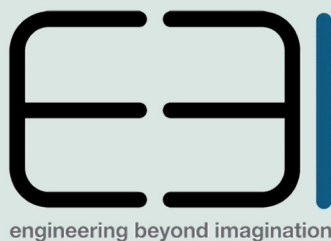
North American Hydraulics,
(NAHI, LLC), partnering with EBI,
world leaders in the production of
hydraulic valves for mobile
machinery.

Features and Benefits:

- Compact and light weight joysticks
- Progressive and sensitive operation
- Precise control and precise metering
- Low operating effort
- Optimised angular movements of joystick and foot pedals
- Control element protected with rubber bellow
- High durability and maintenance free

Proven Solutions for:

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Valves, Servo Controls, Diverters, Handles Solution Providers



ESJ01A

ESJ02A

ESJ02D



ESP02A

ESP02B



ESP04A



EBI Joysticks Control

SPECIFICATIONS	ESJ01A	ESJ02A	ESJ02D
Max input pressure (bar) [psi]	100 [1450]		
Max back-pressure on T line (bar) [psi]	3 [43]		
Control max flow on ports (l/min) [GPM]	15 [4]		
Port size (BSP) [SAE]	G1/4 [06]		
Number of axis	Single axis	2 axis	2 differential area
Mounting hole (mm)	95	90	80

EBI Foot Pedals Control

SPECIFICATIONS	ESP02A	ESP04A	ESP02B
Max input pressure (bar) [psi]	100 [1450]		
Max back-pressure on T line (bar) [psi]	3 [43]		
Control max flow on ports (l/min) [GPM]	15 [4]		
Port size (BSP) [SAE]	G1/4 [06]		
Number of axis	Single foot pedal	Double foot pedal	Single foot pedal

EBI Multifunctional Handles

MODELS	EHM1	EHM2	EHM3
SPECIFICATIONS	Without Micro-switch	One Micro-switch	With Dual Micro-switch

EBI Configurable and Multifunctional Handles

MODELS	EHC1
Specifications and Features	Designed for EBI Servocontrols Ergonomic design ON/OFF and proportional functions Multiple roller Rocker switch Enable trigger control IP configuration driven Configurable options combination Color and logo personalization on request